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PTO/SB/05 (2/98)  
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|   |   |                                       |
|---|---|---------------------------------------|
| <b>UTILITY<br/>PATENT APPLICATION<br/>TRANSMITTAL</b><br><small>(Only for new nonprovisional applications under 37 CFR § 1.53(b))</small> | <b>Attorney Docket No.</b>                      | <b>4015-5072</b>                      |
|   | <b>First Inventor or Application Identifier</b> | <b>Jung-Fu Cheng</b>                  |
|   | <b>Title</b>                                    | <b>Adaptive Hybrid ARQ Algorithms</b> |
|   | <b>Express Mail Label No.</b>                   | <b>EV 051923582 US</b>                |

|  |  |
|--|--|
| <b>APPLICATION ELEMENTS</b><br><small>See MPEP chapter 600 concerning utility patent application contents.</small>   | <b>ADDRESS TO:</b><br>Assistant Commissioner for Patents<br>Box Patent Application<br>Washington, DC 20231   |
| <p>1. <input checked="" type="checkbox"/> *Fee Transmittal Form (e.g., PTO/SB/17)<br/>(Submit an original and a duplicate for fee processing)</p> <p>2. <input checked="" type="checkbox"/> Specification <b>[Total Pages 36]</b><br/>(preferred arrangement set forth below)</p> <ul style="list-style-type: none"><li>— Descriptive title to the Invention</li><li>— Cross References to Related Applications</li><li>— Statement Regarding Fed sponsored R &amp; D</li><li>— Reference to Microfiche Appendix</li><li>— Background of the Invention</li><li>— Brief Summary of the Invention</li><li>— Brief Description of the Drawings (if filed)</li><li>— Detailed Description</li><li>— Claim(s)</li><li>— Abstract of the Disclosure</li></ul> <p>3. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) <b>[Total Sheets 4]</b></p> <p>4. <input checked="" type="checkbox"/> Oath or Declaration <b>[Total Pages 3]</b></p> <ul style="list-style-type: none"><li>a. <input checked="" type="checkbox"/> Newly executed (original or copy)</li><li>b. <input type="checkbox"/> Copy from a prior application (37 C.F.R. § 1.63(d))<br/>(for continuation/divisional with Box 17 completed)<br/><b>[Note Box 5 below]</b></li><li>i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b><br/>Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).</li></ul> <p>5. <input type="checkbox"/> Incorporation By Reference (useable if Box 4b is checked)<br/>The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.</p> | <p>6. <input type="checkbox"/> Microfiche Computer Program (Appendix)</p> <p>7. <input type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)</p> <ul style="list-style-type: none"><li>a. <input type="checkbox"/> Computer Readable Copy</li><li>b. <input type="checkbox"/> Paper Copy (identical to computer copy)</li><li>c. <input type="checkbox"/> Statement verifying identity of above copies</li></ul> <p><b>ACCOMPANYING APPLICATION PARTS</b></p> <p>8. <input checked="" type="checkbox"/> Assignment Papers (cover sheet &amp; document(s))</p> <p>9. <input checked="" type="checkbox"/> 37 C.F.R. § 3.73(b) Statement <input checked="" type="checkbox"/> Power of Attorney<br/>(when there is an assignee)</p> <p>10. <input type="checkbox"/> English Translation Document (if applicable)</p> <p>11. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations</p> <p>12. <input type="checkbox"/> Preliminary Amendment</p> <p>13. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503)<br/>(Should be specifically itemized)</p> <p>14. <input type="checkbox"/> *Small Entity <input type="checkbox"/> Statement filed in prior application, Status still proper and desired</p> <p>15. <input type="checkbox"/> Certified Copy of Priority Document(s)<br/>(if foreign priority is claimed)</p> <p>16. <input checked="" type="checkbox"/> Other: Express Mail Certification</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"><p><b>*NOTE FOR ITEMS 1 &amp; 14: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).</b></p></div> |

17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary statement:

|                                       |                                     |   |  |
|---------------------------------------|-------------------------------------|---|--|
| <input type="checkbox"/> Continuation | <input type="checkbox"/> Divisional | <input type="checkbox"/> Continuation-in-part (CIP) | of prior application No: _____ / _____ |
| Prior application information:        |                                     | Examiner:   | Group/Art Unit:                        |

**18. CORRESPONDENCE ADDRESS**

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|                          |                  |  |               |
|--------------------------|------------------|--|---------------|
| <b>Name (Print/Type)</b> | David E. Bennett | <b>Registration No. (Attorney/Agent)</b> | 32,194        |
| <b>Signature</b>         |                  | <b>Date</b>                              | July 22, 2003 |

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: **Cheng**

Serial No.:

Filed:

Title: **ADAPTIVE HYBRID ARQ ALGORITHMS**

Attorney's Docket No: 4015-5072

**EXPRESS MAIL CERTIFICATION  
LABEL NO.: EV 051923582 USUS**

Raleigh, North Carolina  
July 22, 2003

MS PATENT APPLICATION  
COMMISSIONER FOR PATENTS  
P.O. BOX 1450  
ALEXANDRIA, VA 22313-1450

Sir:

**EXPRESS MAIL CERTIFICATE LABEL NO.: EV 051923582 US**

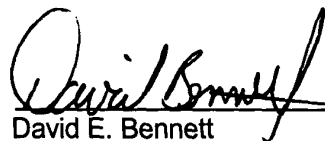
**DATE MAILED: July 22, 2003**

I hereby certify that the enclosed US Utility Patent Application Transmittal Form, Fee Transmittal Form (2 copies), specification and claims, drawings (4 sheets), Declaration and Power of Attorney, Assignment and Recordation Sheet, and our check number 09681 in the amount of \$2470 are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above and is addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Respectfully submitted,

**COATS & BENNETT, P.L.L.C.**

By:



David E. Bennett  
Registration No. 32,194

Telephone: (919) 854-1844

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## FEE TRANSMITTAL

Patent fees are subject to annual revision on October 1

These are the fees effective December 29, 1999.

Small Entity payments must be supported by a small entity statement.

Otherwise large entity fees must be paid. See Forms PTO/SB/09-12.

See 37 C.F.R. §§ 1.27 and 1.28.

Complete if Known

|                      |               |
|----------------------|---------------|
| Application Number   | TBA           |
| Filing Date          | July 22, 2003 |
| First Named Inventor | Jung-Fu Cheng |
| Examiner Name        | TBA           |
| Group Art Unit       | TBA           |
| Attorney Docket No.  | 4015-5072     |

**TOTAL AMOUNT OF PAYMENT** (\$2470.00)

### METHOD OF PAYMENT (check one)

1. ☒ The Commission is hereby authorized to charge indicated fees and credit any over payments to:

Deposit Account Number: 18-1167

Deposit Account Name: Coats & Bennett, P.L.L.C.

- ☒ Charge Any Additional Fee Required Under 37 CFR §§1.16 and 1.17 ☐ Charge the Issue Fee Set in 37 CFR §1.18 at the Mailing of the Notice of Allowance

2. ☒ Payment Enclosed:  
☒ Check ☐ Money Order ☐ Other

### FEE CALCULATION

| 1. BASIC FILING FEE |                 |                |                 |                        |                   |
|---------------------|-----------------|----------------|-----------------|------------------------|-------------------|
| Large Fee Code      | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description        | Fee Paid          |
| 101                 | 750             | 201            | 345             | Utility filing fee     | 750.00            |
| 106                 | 310             | 206            | 155             | Design filing fee      |                   |
| 107                 | 480             | 207            | 240             | Plant filing fee       |                   |
| 108                 | 760             | 208            | 380             | Reissue filing fee     |                   |
| 114                 | 150             | 214            | 75              | Provisional filing fee |                   |
| <b>SUBTOTAL (1)</b> |                 |                |                 |                        | <b>(\$750.00)</b> |

### 2. EXTRA CLAIM FEES

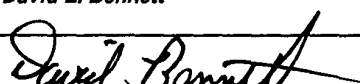
| Extra Claims              |    | Fee from below       | Fee Paid |
|---------------------------|----|----------------------|----------|
| Total Claims              | 90 | -20** = 70 X 18.00 = | 1260.    |
| Independent Claims        | 8  | -3** = 5 X 84.00 =   | 420.     |
| Multiple Dependent Claims |    |                      |          |

\*\* or number previously paid, if greater; For Reissues, see below

| Large Fee Code                  | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description   |
|---------------------------------|-----------------|----------------|-----------------|---|
| 103                             | 18              | 203            | 9               | Claims in excess of 20                                    |
| 102                             | 78              | 202            | 39              | Independent claims in excess of 3                         |
| 104                             | 260             | 204            | 130             | Multiple dependent claim                                  |
| 109                             | 78              | 209            | 39              | **Reissue independent claims over original patent         |
| 110                             | 18              | 210            | 9               | **Reissue claims in excess of 20 and over original patent |
| <b>SUBTOTAL (2)</b> (\$1680.00) |                 |                |                 |   |

### FEE CALCULATION (continued)

| 3. ADDITIONAL FEES                |                 |                |                 |  |           |
|-----------------------------------|-----------------|----------------|-----------------|--|-----------|
| Large Fee Code                    | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description  | Paid      |
| 105                               | 130             | 205            | 65              | Surcharge - late filing fee or oath  |           |
| 127                               | 50              | 227            | 25              | Surcharge - late provisional filing fee or cover sheet                     |           |
| 139                               | 130             | 139            | 130             | Non-English specification  |           |
| 147                               | 2,520           | 147            | 2,520           | For filing a request for reexamination                                     |           |
| 112                               | 920*            | 112            | 920*            | Requesting publication of SIR prior to Examiner action                     |           |
| 113                               | 1,840*          | 113            | 1,840*          | Requesting publication of SIR after Examination action                     |           |
| 115                               | 110             | 215            | 55              | Extension for reply within first month                                     |           |
| 116                               | 380             | 216            | 190             | Extension for reply within second month                                    |           |
| 117                               | 870             | 217            | 435             | Extension for reply within third month                                     |           |
| 118                               | 1,360           | 218            | 680             | Extension for reply within fourth month                                    |           |
| 128                               | 1,850           | 228            | 925             | Extension for reply within fifth month                                     |           |
| 119                               | 300             | 219            | 150             | Notice of Appeal   |           |
| 120                               | 300             | 220            | 150             | Filing a brief in support of an appeal                                     |           |
| 121                               | 260             | 221            | 130             | Request for oral hearing   |           |
| 138                               | 1,510           | 138            | 1,510           | Petition to institute a public use proceeding                              |           |
| 140                               | 110             | 240            | 55              | Petition to revive - unavoidable   |           |
| 141                               | 1,210           | 241            | 605             | Petition to revive - unintentional   |           |
| 142                               | 1,210           | 242            | 605             | Utility issue fee (or reissue)   |           |
| 143                               | 430             | 243            | 215             | Design issue fee   |           |
| 144                               | 580             | 244            | 290             | Plant issue fee  |           |
| 122                               | 130             | 122            | 130             | Petitions to the Commissioner  |           |
| 123                               | 50              | 123            | 50              | Petitions related to provisional applications                              |           |
| 126                               | 240             | 126            | 240             | Submission of Information Disclosure Stmt.                                 |           |
| 581                               | 40              | 581            | 40              | Recording each patent assignment per property (times number of properties) | 40.00     |
| 146                               | 760             | 246            | 380             | Filing a submission after final rejection (37 CFR 1.129(a))                |           |
| 149                               | 760             | 249            | 380             | For each additional invention to be examined (37 CFR 1.129(b))             |           |
| Other fee (specify)               |                 |                |                 |  |           |
| Other fee (specify)               |                 |                |                 |  |           |
| *Reduced by Basic Filing Fee Paid |                 |                |                 |  |           |
|                                   |                 |                |                 | SUBTOTAL (3)   | (\$40.00) |

| SUBMITTED BY          |   |               |  | Complete (if applicable) |         |
|-----------------------|---|---------------|--|--------------------------|---------|
| Typed or Printed Name | David E. Bennett  |               |  | Reg. Number              | 32,194  |
| Signature             |  |               |  | Deposit Account User ID  | 18-1167 |
|                       | Dat   | July 22, 2003 |  |                          |         |

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